

AMENDMENTS TO THE CLAIMS

Kindly amend the claims as follows:

1. (Currently amended) A non-toxic and non-corrosive ignition mixture ~~created by combining the energy system with the pyrotechnic system~~ wherein the mixture comprises

from 5 up to 40 weight percent of a high explosive, selected from the group consisting of
nitroesters and nitramines,

from 5 up to 40 weight percent of a sensibilizer, which is selected from the group
consisting of tetrazene or and salts or derivatives derivatives of tetrazoles;

from 5 up to 50% of an oxidizing agent, selected from the group of oxides and peroxides
of metals or from the group of salts of inorganic oxygen-containing acids or from the group of
complex salts, consisting of oxides of copper, zinc, bismuth, iron, manganese, tin, vanadium or
molybdenum; peroxides of zinc or calcium; saltpetre; basic nitrates of bismuth, tin or copper;
and diammo-copper nitrate;

from 1 up to 20 weight percent of boron as a fuel;

from 5 up to 30 percent of a friction agent; and
optionally from 0.1 up to 5 weight percent of a bonding agent.

2. (Currently amended) The mixture according to claim 1 ~~characterized by~~
~~the fact that the high explosive is selected from the group of nitroesters including~~ wherein said
high explosive is selected from the group consisting of penthrite, hexanitromannite,
nitrocellulose, or from the group of nitramines including hexogene, octogene, and tetryle.

3. (Currently amended) The mixture according to claim 1 ~~characterized by the fact that the fuel~~ wherein said boron is amorphous boron with specific surface area of 5 up to 25 m²/g.

4. (Cancelled)

5. (Currently amended) The mixture according to claim 1 ~~characterized by the fact that~~ wherein the bonding agents ~~are~~ is selected from nitrocellulose, polyvinyl alcohol ~~or~~ and acacia gum.

6. (Cancelled)

7. (Currently amended) The mixture according to claim 1 ~~characterized by the fact that~~ wherein the friction agent is ground glass.

8. (Cancelled)

9. (Cancelled)

10. (Cancelled)

11. (New) The mixture according to claim 2 wherein said high explosive is penthrite.


12. (New) The mixture according to claim 2 wherein said bonding agent is nitrocellulose, polyvinyl alcohol, or acacia gum.

13. (New) The mixture according to claim 12 wherein said bonding agent is nitrocellulose and said mixture further comprises an organic solvent.

14. (New) The mixture according to claim 13 wherein said organic solvent is acetone.

15. (New) The mixture according to claim 2 wherein said boron is amorphous boron with specific surface area of 5 to 25 m²/g.

16. (New) The mixture according to claim 2 wherein said friction agent is ground glass.

 17. (New) The mixture according to claim 5 wherein said bonding agent is nitrocellulose and said mixture further comprises an organic solvent.

18. (New) The mixture according to claim 17 wherein said organic solvent is acetone.

19. (New) A primer cap for an ammunition cartridge filled with the mixture of claim 1.

20. (New) The primer cap of claim 19 wherein said ammunition cartridge is a central ignition cartridge.

21. (New) An ammunition cartridge comprising the primer cap of claim 19.

22. (New) An ammunition cartridge comprising the primer cap of claim 20.
